Current Fleet Composition & Plans for the FutureJune 16, 2021

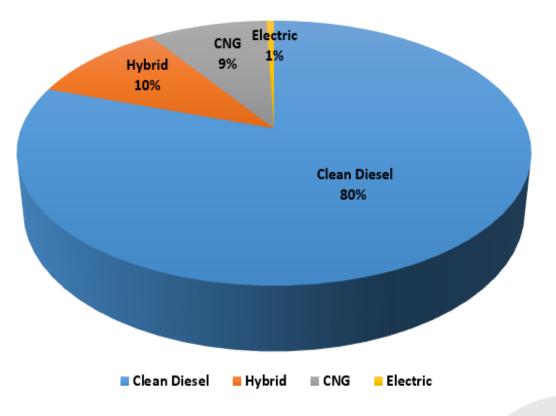


2021 Bus Fleet Composition

PROPULSION TYPE QUANTITY CLEAN DIESEL 423 HYBRID 54 CNG 47 ELECTRIC 3 TOTAL 527

- Hybrid
 - 45 (Timpanogos Service Unit)
 - 9 (Mt. Ogden Service Unit)
- CNG
 - 47 (Salt Lake Service Unit)
- Battery Electric
 - 3 (Salt Lake Service Unit)

2021 BUS FLEET



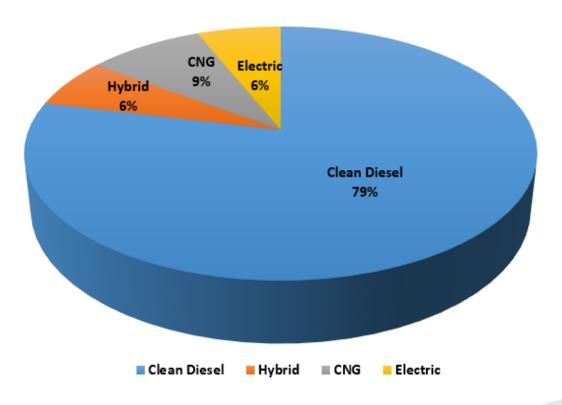


2023 Bus Fleet Composition

PROPULSION TYPE QUANTITY CLEAN DIESEL 423 HYBRID 34 CNG 47 ELECTRIC 34 TOTAL 538

- Hybrid
 - 25 (Timpanogos Service Unit)
 - 9 (Mt. Ogden Service Unit)
- CNG
 - 47 (Salt Lake Service Unit)
- Battery Electric
 - 23 (Salt Lake Service Unit)
 - 11 (Mt. Ogden Service Unit)

2023 BUS FLEET





Utah Transit Authority Fleet Composition Strategy

- Currently developing a data-driven mixed bus fleet strategy that supports UTA's mission
- Serve as a guide for future vehicle procurement and facilities plans
- Recommendations anticipated in August 2021 for inclusion in 5-year capital plan

UTA's Mission Statement:

Provide integrated mobility solutions to service life's connections, improve public health and enhance quality of life









Strategy Development Inputs - Areas of Analysis

- Air quality benefits
- Current fleet mix & replacement schedule
- Vehicle compatibility with service plan
- Current infrastructure capabilities & future needs
- Full life cycle vehicle cost (purchase & major maintenance)
- Full cycle emissions (well to tank & tank to wheels)

- Fuel efficiency & cost
- Resources per fleet
- Vehicle reliability
- Technological innovations (electric, CNG, & hydrogen fuel cell)
- National trends (other agencies, climate)









Bus performance (MPG) Diesel, CNG, Battery

	Clean Diesel (MPG)	CNG (MPG equivalent)	Battery (MPG equivalent)
UTA	5.25	3.88	15.10*
National average	4.60	2.99	17.09
Comparison	14 %	30 %	(11.6) %

- 1. UTA performance is from 2020
- 2. National averages are from 2018 NTD
- UTA buses (diesel & CNG) operate more efficiently due to eco driving practices and anti idling policy implementation
- *UTA operates the battery buses on the Route 2 to the University of Utah which has a significant grade change. Hill climbing uses extra energy.

Bus Emissions Savings Benefits

- In 2019, from those who rode transit instead of driving a car, UTA produced a net savings of over 356 tons of criteria air pollutants (NOx, SOx, CO, HC, PM) across the Wasatch Front.
- In 2020, with reduced ridership and response to a pandemic UTA was able to produce a net savings of 186 tons.



Questions?

